

REMARKS

Claims 1-22 are pending in this application. By this Amendment, claims 1, 8-10, 17 and 18 are amended, and claims 21 and 22 are added. Claims 5, 6, 14 and 15 have been withdrawn from consideration. No new matter is added. Reconsideration based on the foregoing amendments and following remarks is respectfully requested.

Applicant gratefully appreciates the courtesies extended to Applicant's representative by Examiner Osorio during the July 6 personal interview. The points discussed are incorporated into the following remarks.

I. Rejection Under 35 U.S.C. §102(e)

The Office Action rejects claims 1, 2, 10, 11, 17, 19 and 20 under 35 U.S.C. §102(e) over U.S. Patent Application Publication No. 2002/0101396 to Huston et al. ("Huston"). Applicant respectfully traverses the rejection.

Huston does not disclose a display device, an electro-optical device and a driving method for an electro-optical device including "a size of each of at least two of said sub-pixels in one pixel of said pixels being differentiated from each other," as recited in claims 1, 8 and 17.

The Office Action asserts that Huston discloses an electro-optical or display device having pixels including sub-pixels that are each provided with a static random access memory. Notwithstanding these assertions, Huston does not disclose a size of each of at least two of said sub-pixels in one pixel of said pixels being differentiated from each other, as set forth in claims 1, 8-10, 17 and 18.

Instead, Huston discloses a display matrix 12 including a plurality of display elements 14. See Fig. 1. Each display element 14 includes a pixel 16 and a display circuit 18 having a plurality of memory cells 20A, 20B or more than one memory cell per pixel. See page 5, paragraphs [0082] and [0084], and page 6, paragraph [0087]. Huston discloses that the

memory cells may be conventional Static Random Access Memory (SRAM) cells. See page 7, paragraph [0097]. Huston also discloses, in Fig. 6, four display circuits 600, 602, 604, 606 with three SRAM cells per display circuit. See page 7, paragraph [0105]. During the personal interview, the Examiner asserted that each memory cell corresponds to a sub-pixel of a specified pixel.

The display device, electro-optical device and driving method for an electro-optical device of claims 1, 10 and 17 include pixel equivalent circuits and two organic electro-luminance elements 61 and 62, each having a lower luminance level and a higher luminance level. See fig. 3, and page 8, paragraph [0046]. If the average luminance (luminance per unit area) of the lower luminance level and the higher luminance level of the organic electro-luminance element 61 is substantially the same as that of the organic electro-luminance element 62, the area of the organic electro-luminance 61 is differentiated from that of the organic electro-luminance 62, thereby obtaining the maximum number of gray scale levels in response to a supplied data signal. See paragraph [0046]. Huston does not disclose these features. Specifically, Huston does not mention the sizes of the SRAM cells, i.e., the luminance per unit area. For the foregoing reasons, Huston does not disclose each and every element of claims 1, 8-10, 17 and 18.

Claims 1, 10 and 17 are not anticipated by Huston. Claims 2, 11, 19 and 20 depend from claims 1 and 10, and thus are also not anticipated by Huston. Accordingly, reconsideration and withdrawal of the rejection are respectfully requested.

II. Rejections Under 35 U.S.C. §103(a)

A. Huston in view of Sato

The Office Action rejects claims 3-4, 8-9, 12-13 and 18 under 35 U.S.C. §103(a) over Huston in view of U.S. Patent No. 5,357,583 to Sato et al. ("Sato"). Applicant respectfully traverses the rejection.

As discussed above, Huston does not teach or suggest a display device, an electro-optical device and driving method for an electro-optical device including "a size of each of at least two of said sub-pixels in one pixel of said pixels being differentiated from each other," as recited in claims 1, 10 and 17. Claims 8, 9 and 18 include similar features. Accordingly, for the reasons discussed above, Huston does not teach or suggest the features of claims 8, 9 and 18.

Sato does not remedy the deficiencies of Huston. Instead, Sato teaches a graphics processing apparatus including a pixel at an edge of an image to be processed being divided into a plurality of sub-pixels. See col. 5, lines 52-54. Although Sato teaches that a number of sub-pixels being segment painted or shaded must be computed to determine a luminance level of a corresponding pixel of an output image or an area ratio of painted sub-pixels relative to that pixel, Sato, like Huston, does not teach or suggest that a size of each of at least two of said sub-pixels in one pixel of said pixels being differentiated from each other. Accordingly, Huston and Sato, either alone or in combination, would not have rendered obvious the display device, electro-optical device and driving method for a display device of claims 1, 8-10, 17 and 18.

Claims 1, 8-10, 17 and 18 would not have been rendered obvious by Huston in view of Sato. Claims 3-4 and 12-13 depend from claims 1 and 10, and thus would not have been rendered obvious by Huston in view of Sato. Accordingly, reconsideration and withdrawal of the rejection are respectfully requested.

B. Huston in view of Alt

The Office Action rejects claims 7 and 16 under 35 U.S.C. §103(a) over Huston in view of U.S. Patent No. 6,697,037 to Alt et al. ("Alt"). Applicant respectfully traverses the rejection.

As discussed above, Huston does not teach or suggest a display device, an electro-optical device and driving method for an electro-optical device including "a size of each of at least two of said sub-pixels in one pixel of said pixels being differentiated from each other," as recited in claims 1 and 10. Alt does not remedy the deficiencies of Huston.

Instead, Alt teaches a matrix address display system that enables data line repair by electronic mechanisms including a dual memory stacker 80 that determines which sub-pixels are to be corrected. See Fig. 6, and col. 5, lines 13-20. Repaired data sub-pixel fields are used to determine if one or more sub-pixels must be stored into the A, B and/or C RAMS 100, 102 and 104, respectively. See col. 6, lines 37-47. Alt, like Huston, does not teach or suggest a size of each of at least two of said sub-pixels in one pixel of said pixels being differentiated from each other, as set forth in claims 1 and 10. For the foregoing reasons, even if combined, Huston and Alt do not teach or suggest the display device set forth in claims 1 and 10.

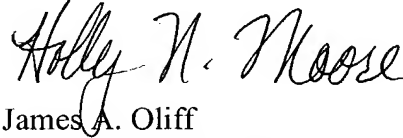
Huston and Alt would not have rendered obvious claims 1 and 10. Claims 7 and 16 depend from claims 1 and 10, and thus also would not have been rendered obvious by Huston in view of Alt. Accordingly, reconsideration and withdrawal of the rejections are respectfully requested.

III. Conclusion

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-20 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned representative at the telephone number set forth below.

Respectfully submitted,



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Attachment:

Amendment Transmittal

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